CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

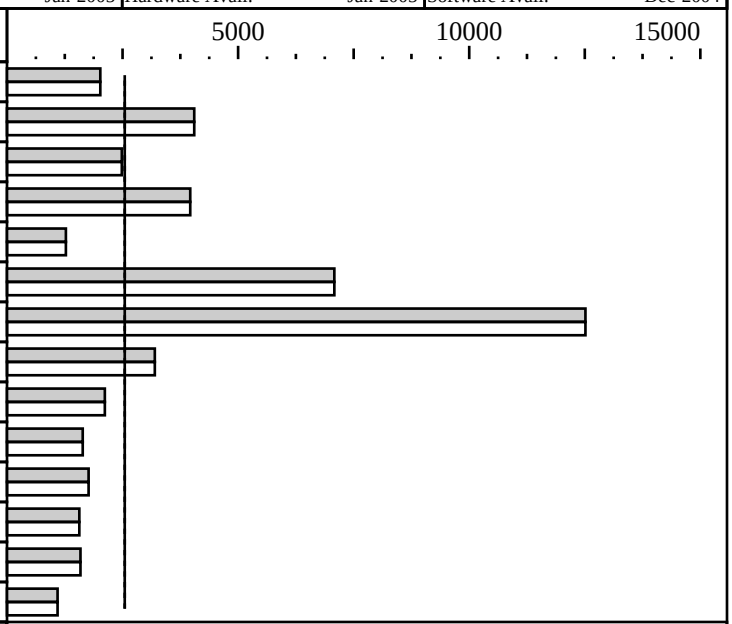
ION
I2X4 (1.6GHz Itanium 2 processor)

SPECfp2000 = 2547

SPECfp_base2000 = 2547

SPEC license #: 2697 | Tested by: ION | Test date: Jan-2005 | Hardware Avail: Jan-2005 | Software Avail: Dec-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	79.3	2019	79.3	2019
171.swim	3100	76.5	4051	76.5	4051
172.mgrid	1800	72.5	2484	72.5	2484
173.applu	2100	53.0	3964	53.0	3964
177.mesa	1400	110	1274	110	1274
178.galgel	2900	40.9	7082	40.9	7082
179.art	2600	20.8	12514	20.8	12514
183.equake	1300	40.7	3198	40.7	3198
187.facerec	1900	89.8	2117	89.8	2117
188.ammp	2200	134	1638	134	1638
189.lucas	2000	113	1765	113	1765
191.fma3d	2100	134	1565	134	1565
200.sixtrack	1100	69.2	1589	69.2	1589
301.apsi	2600	238	1094	238	1094



Hardware

CPU:	Intel Itanium 2 processor
CPU MHz:	1596
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	1-4
Parallel:	No
Primary Cache:	16KBI + 16KBD (on chip) per CPU
Secondary Cache:	256KB (I+D) (on chip) per CPU
L3 Cache:	9MB (I+D) (on chip) per CPU
Other Cache:	N/A
Memory:	32 GB (16x2048MB DDR266 DIMMS)
Disk Subsystem:	1x36GB SCSI (Seagate Cheetah 15k rpm)
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux AS 3 Update 4, 2.4.21-27.EL, IPF
Compiler:	Intel(R) Fortran Compiler for Linux 8.1, IPF (Build 20041123) Intel(R) C Compiler for Linux 8.1, IPF (Build 20041123) MicroQuill SmartHeap library 7.01, IPF
File System:	ext3
System State:	Multi-user, run level 3

Notes/Tuning Information

```
Tested by ION Computer Systems
```

```
Baseline optimization flags:
      C programs: -fast -IPF_fp_relaxed -ansi_alias +FDO
Fortran programs: -fast -IPF_fp_relaxed +FDO
            +FDO: PASS1=-prof_gen  PASS2=-prof_use

FP Peak optimization flags:
  168.wupwise: basepeak=yes
  171.swim: basepeak=yes
  172.mgrid: basepeak=yes
  173.applu: basepeak=yes
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

```
    177.mesa: basepeak=yes
    178.galgel: basepeak=yes
    179.art: basepeak=yes
    183.equake: basepeak=yes
    187.facerec: basepeak=yes
    188.ammp: basepeak=yes
    189.lucas: basepeak=yes
    191.fma3d: basepeak=yes
    200.sixtrack: basepeak=yes
    301.apsi: basepeak=yes

  Portability Flags:
    178.galgel:  -FI
```